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1 The effects of proxy bidding and minimum bid increments within eBay auctions   ■

Alex Rogers, Esther David, Nicholas R. Jennings, Jeremy Schiff
August 2007 **ACM Transactions on the Web (TWEB)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: 🗎 pdf(355.39 KB)   Additional Information: full citation, abstract, references, index terms

> We present a mathematical model of the eBay auction protocol and perform a detailed analysis of the effects that the eBay proxy bidding system and the minimum bid increment have on the auction properties. We first consider the revenue of the auction, and we show analytically that when two bidders with independent private valuations use the eBay proxy bidding system there exists an optimal value for the minimum bid increment at which the auctioneer's revenue is maximized. We then consider the ...

> **Keywords**: Online auctions, bid increment, electronic commerce, proxy bidding, sniping

2 An algorithm for computing the outcome of combinatorial auctions with proxy bidding   ■

Peter R. Wurman, Ganghu Cai, Jie Zhong, Ashish Sureka
September 2003 **Proceedings of the 5th international conference on Electronic commerce ICEC '03**
Publisher: ACM Press
Full text available: 🗎 pdf(389.58 KB)   Additional Information: full citation, abstract, references, index terms

> Proxy bidding has proved useful in a variety of real auction formats, such as eBay, and has been proposed for some combinatorial auctions. Previous work on proxy bidding in combinatorial auctions requires the auctioneer essentially run the auction with myopic bidders to determine the outcome. In addition to being computationally costly, this process is only as accurate as the bid increment, and decreasing the bid increment to improve accuracy greatly increases the running time. In this paper, we ...

> **Keywords**: Auction Algorithms, Combinatorial Auctions, Proxy Bidding

3 Poster paper sessions: Computing the outcome of proxy bidding in combinatorial auctions extended abstract   ■

Peter R. Wurman, Gangshu Cai, Ashish Sureka
June 2003 **Proceedings of the 4th ACM conference on Electronic commerce EC '03**
Publisher: ACM Press

Full text available: 📄 pdf(60.07 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

4 <u>Accelerating information revelation in ascending-bid auctions: avoiding last minute</u> ■
<u>bidding</u>
Shigeo Matsubara
October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce EC '01**
Publisher: ACM Press

Full text available: 📄 pdf(171.47 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

An ascending-bid auction protocol with a fixed end time has been widely used at many
Internet auction sites. At these sites, we can observe bidders engaging in the behavior
called last minute bidding, namely, a large fraction of the bids for a good are submitted in
the closing seconds of the auction. This can cause problems such as information
revelation failure as well as server overload and network congestion. When bidders
behave in this way, each of them cannot obtain information about the go ...

Keywords: auction, information revelation, last minute bidding, multi-agent systems

5 <u>Auctions and E-commerce: A probabilistic approach to automated bidding in</u> ■
<u>alternative auctions</u>
Marlon Dumas, Lachlan Aldred, Guido Governatori, Arthur ter Hofstede, Nick Russell
May 2002 **Proceedings of the 11th international conference on World Wide Web
WWW '02**
Publisher: ACM Press

Full text available: 📄 pdf(233.70 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper presents an approach to develop bidding agents that participate in multiple
alternative auctions, with the goal of obtaining an item at the lowest price. The approach
consists of a prediction method and a planning algorithm. The prediction method exploits
the history of past auctions in order to build probability functions capturing the belief that
a bid of a given price may win a given auction. The planning algorithm computes the
lowest price, such that by sequentially bidding in a s ...

6 <u>The sequential auction problem on eBay: an empirical analysis and a solution</u> ■
Adam I. Juda, David C. Parkes
June 2006 **Proceedings of the 7th ACM conference on Electronic commerce EC '06**
Publisher: ACM Press

Full text available: 📄 pdf(267.79 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Bidders on eBay have no dominant bidding strategy when faced with multiple auctions
each offering an item of interest. As seen through an analysis of 1,956 auctions on eBay
for a Dell E193FP LCD monitor, some bidders win auctions at prices higher than those of
other available auctions, while others never win an auction despite placing bids in losing
efforts that are greater than the closing prices of other available auctions. These
misqueues in strategic behavior hamper the efficiency of the sys ...

Keywords: eBay, online auctions, options, proxy bidding, sequential auction problem

7 <u>Poster paper sessions: Preference elicitation in proxied multiattribute auctions</u> ■
Aditya V. Sunderam, David C. Parkes
June 2003 **Proceedings of the 4th ACM conference on Electronic commerce EC '03**

Publisher: ACM Press

Full text available: 📄 pdf(104.75 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We consider the problem of minimizing preference elicitation in efficient multiattribute auctions, that support dynamic negotiation over non-price based attributes such as quality, time-of-delivery, and processor speed. We introduce asynchronous price-based multiattribute auctions, with proxy bidding agents that sit between the auctioneer and the participants. Empirical results demonstrate the preference elicitation savings that are provided with minimal price spaces, asynchronous updates, and p ...

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8 A heuristic bidding strategy for multiple heterogeneous auctions

Patricia Anthony, Nicholas R. Jennings

September 2003 **Proceedings of the 5th international conference on Electronic commerce ICEC '03**

Publisher: ACM Press

Full text available: 📄 pdf(194.89 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Online auctions are increasingly being used as a medium to procure goods and services. As the number of auction sites increases, however, consumers will inevitably want to track and bid in multiple auctions (with multiple protocols) in order to get the best deal for their desired goods. To this end, this paper reports on the development of a heuristic decision making framework that an autonomous agent can exploit to tackle the problem of bidding across multiple heterogeneous auctions. The framew ...

Keywords: bidding strategy, intelligent agents, multiple auctions

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9 Developing a bidding agent for multiple heterogeneous auctions

Patricia Anthony, Nicholas R. Jennings

August 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 3

Publisher: ACM Press

Full text available: 📄 pdf(1.15 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Due to the proliferation of online auctions, there is an increasing need to monitor and bid in multiple auctions in order to procure the best deal for the desired good. To this end, this paper reports on the development of a heuristic decision making framework that an autonomous agent can exploit to tackle the problem of bidding across multiple auctions with varying start and end times and with varying protocols (including English, Dutch and Vickrey). The framework is flexible, configurable, and ...

Keywords: bidding strategy, genetic algorithms, multiple auctions

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10 Real world applications: Applying metaheuristic techniques to search the space of bidding strategies in combinatorial auctions

Ashish Sureka, Peter R. Wurman

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Publisher: ACM Press

Full text available: 📄 pdf(216.57 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Many non-cooperative settings that could potentially be studied using game theory are characterized by having very large strategy spaces and payoffs that are costly to

compute. Best response dynamics is a method of searching for pure-strategy equilibria in games that is attractive for its simplicity and scalability (relative to more analytical approaches). However, when the cost of determining the outcome of a particular set of joint strategies is high, it is impractical to compute the payoffs o ...

Keywords: combinatorial auctions, game theory, genetic algorithms, tabu search

11 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels
Glenn Judd, Peter Steenkiste
August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**
Publisher: ACM Press
Full text available: pdf(6.06 MB)   Additional Information: full citation, abstract, references, index terms

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

12 Virtual extension: When snipers become predators: can mechanism design save online auctions?
Ravi Bapna
December 2003 **Communications of the ACM**, Volume 46 Issue 12
Publisher: ACM Press
Full text available: pdf(470.71 KB)
html(27.53 KB)   Additional Information: full citation, references, citings, index terms

13 Markets: An asynchronous and secure ascending peer-to-peer auction
Daniel Rolli, Michael Conrad, Dirk Neumann, Christoph Sorge
August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Economics of peer-to-peer systems P2PECON '05**
Publisher: ACM Press
Full text available: pdf(151.91 KB)   Additional Information: full citation, abstract, references, index terms

In recent years, auctions have become a very popular price discovery mechanism. Among them, second-price auctions are of theoretical importance, as they have the simple dominant strategy of bidding ones true valuation. Sellers, however, are reluctant to do so, as a malicious auctioneer could take advantage of this knowledge. Several distributed auction mechanisms have been suggested that make it possible to determine the auction outcome without revealing the winner's valuation of the good; howev ...

Keywords: distributed auctions, peer-to-peer systems, privacy, security protocols, trust

14 Optimal design of english auctions with discrete bid levels
Esther David, Alex Rogers, Nicholas R. Jennings, Jeremy Schiff, Sarit Kraus, Michael H. Rothkopf

May 2007 **ACM Transactions on Internet Technology (TOIT)**, Volume 7 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(632.13 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This article considers a canonical auction protocol that forms the basis of nearly all current online auctions. Such *discrete bid* auctions require that the bidders submit bids at predetermined discrete bid levels, and thus, there exists a minimal increment by which the bid price may be raised. In contrast, the academic literature of optimal auction design deals almost solely with continuous bid auctions. As a result, there is little practical guidance as to how an auctioneer, seeking t ...

Keywords: Discrete bids, English auction, optimal auction design

15 Fifth Australasian Symposium on Grid Computing and e-Research (AusGrid 2007):   ▪
Autonomic system management in mobile grid environments
Michael Messig, Andrzej Goscinski
January 2007 **Proceedings of the fifth Australasian symposium on ACSW frontiers - Volume 68 ACSW '07**
Publisher: Australian Computer Society, Inc.
Full text available: 📄 pdf(702.98 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Mobile device integration in grid environments is a challenge for many researchers. Due to the transient nature of mobile devices, service management is a critical, but often overlooked area of research. We propose a distributed broker responsible for the autonomic management of grid services. The broker provides self discovery and negotiation, self configuration and self healing for SOA based mobile grids. In this paper the design and prototype implementation of the broker is presented and t ...

Keywords: autonomic principles, grid computing, mobile devices

16 Scalable systems for dynamic content: Consistency-preserving caching of dynamic   ▪
database content
Niraj Tolia, M. Satyanarayanan
May 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07**
Publisher: ACM Press
Full text available: 📄 pdf(941.58 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

With the growing use of dynamic web content generated from relational databases, traditional caching solutions for through put and latency improvements are ineffective. We describe a middleware layer called *Ganesh* that reduces the volume of data transmitted without semantic interpretation of queries or results. It achieves this reduction through the use of cryptographic hashing to detect similarities with previous results. These benefits do not require any compromise of the strict cons ...

Keywords: bandwidth optimization, content addressable storage, database caching, relational database systems, wide area networks

17 Agent-based modeling and simulation: Agent-based simulation of dynamic online   ▪
auctions
Hideyuki Mizuta, Ken Steiglitz
December 2000 **Proceedings of the 32nd conference on Winter simulation WSC '00**
Publisher: Society for Computer Simulation International

Full text available: 📄 pdf(103.47 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

The need to understand dynamic behavior in auctions is increasing with the popularization of online auctions. Applications include designing auction mechanisms, bidding strategies, and server systems. We describe simulations of a typical online auction, where the duration is fixed, and the second-highest price is continuously posted and determines the winner's payment. We modeled agents of exactly two types, idealizations and simplifications of those observed in practice: *early bidders, w ...*

18 <u>An exception-handling architecture for open electronic marketplaces of contract net</u> ◼
◈ <u>software agents</u>
Chrysanthos Dellarocas, Mark Klein, Juan Antonio Rodriguez-Aguilar
October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce EC '00**
Publisher: ACM Press
Full text available: 📄 pdf(367.47 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: contract net, electronic institutions, electronic markets, exception handling, failure management, software agents

19 <u>Running up the bid: detecting, predicting, and preventing reserve price shilling in</u> ◼
◈ <u>online auctions</u>
Robert J. Kauffman, Charles A. Wood
September 2003 **Proceedings of the 5th international conference on Electronic commerce ICEC '03**
Publisher: ACM Press
Full text available: 📄 pdf(234.90 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Online auctions allow the seller to remain anonymous and to easily change identities. Buyers must rely on the seller's description of a product and ability to deliver the product as promised. Internet auction environments make opportunistic behavior more attractive to sellers because the chance of detection and punishment is decreased. In this research, we show how fee structures at eBay, the largest online auction house, motivate shilling behavior. We distinguish between two different types of ...

Keywords: Economic analysis, Internet auctions, e-commerce, electronic markets, empirical research, fraud detection, opportunism, shilling

20 <u>Supporting community and building social capital: Social translucence: designing</u> ◼
◈ <u>social infrastructures that make collective activity visible</u>
Thomas Erickson, Christine Halverson, Wendy A. Kellogg, Mark Laff, Tracee Wolf
April 2002 **Communications of the ACM**, Volume 45 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(272.15 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>
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Jie Zhang; Chan, H.C.B.;
Advanced Information Networking and Applications, 2004. AINA 2004. 18th Int
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